

UNITED STATES DEPARTMENT OF AGRICULTURE
ANIMAL AND PLANT HEALTH INSPECTION SERVICE

1. REGISTRATION NO.

FORM APPROVED
OMB NO 0579-0036

2. HEADC
include 21-R-0082, Cust Id 445

red with USDA

ANNUAL REPORT OF RESEARCH FACILITY
(TYPE OR PRINT)

NOV 30 2000

COLUMBIA UNIVERSITY
630 W 168TH ST
NEW YORK NEW YORK, NY 10032

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional sheets if necessary.)

FACILITY LOCATIONS (Sites)

Black Bldg & Eye Institute Annex, 630 W. 168th

New York, New York 10032

REPORT OF ANIMALS USED BY OR UNDER CONTROL OF RESEARCH FACILITY (Attach additional sheets if necessary or use APHIS FORM 7023A.)

A. Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain- relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report.)	F. TOTAL NO OF ANIMALS (Cols. C + D + E)
4. Dogs	7	45	565	0	610
5. Cats	0	0	22	0	22
6. Guinea Pigs	0	51	105	0	156
7. Hamsters	0	0	35	0	35
8. Rabbits	12	79	95	0	174
9. Non-human Primates	6	0	42	0	42
10. Sheep	0	0	21	0	21
11. Pigs	0	0	44	0	44
12. Other Farm Animals					
Bovine	0	0	29	0	29
13. Other Animals					
Ferrets	0	24	0	0	24
Frogs	0	21	322	0	343

ASSURANCE STATEMENTS

- 1) Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.
- 2) Each principal investigator has considered alternatives to painful procedures.
- 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the Institutional Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected.
- 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

CERTIFICATION BY HEADQUARTES RESEARCH FACILITY OFFICIAL
(Chief Executive Officer or Legally Responsible Institutional Official)

I certify that the above is true, correct, and complete (7 U.S.C. Section 2143)

SIGN:	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)	DATE SIGNED

SUMMARY OF EXCEPTIONS

October 1, 1999 to September 31, 2000

1. In a single protocol, 12 rhesus monkeys must be chaired for periods greater than 12 hours and less than 24 hours. This is an exception to the standard set by the Laboratory Animal Welfare Act. The Act states that nonhuman primates must be given the opportunity for 1 hour of continuous unrestrained activity if more than 12 hours of restraint are required. Monkeys used in the protocol are chair-restrained approximately three to ten times per year. All animals are conditioned to this restraint to prevent any distress associated with chairing. The IACUC approved this restraint based upon the scientific requirements for continuous data collection.
2. Five ovariectomized female rhesus nonhuman primates will be transferred from a separate protocol to a new protocol that requires two additional survival surgeries over a time period of about two months. The purpose is to study endometriosis so that new treatments may be developed for humans suffering this disorder. The animals will not undergo any further major survival surgery after this protocol is completed. This is an exception to the standards set by the *Guide* and the Laboratory Animal Welfare Act (AWA), 9 CFR, § 2.31 (d)(x). The *Guide* states that multiple major survival surgical procedures on a single animal are discouraged but may be permitted if scientifically justified by the user and approved by the IACUC. The AWA standard states that no animal will be used in more than one major operative procedure unless justified for scientific reasons by the principal investigator, in writing and in special circumstances as determined by the USDA/APHIS Administrator. Both conditions were fulfilled. The USDA/APHIS Administrator approved the request for an exemption under 9 CFR, § 2.31(d)(x) to perform multiple survival surgeries on the five nonhuman primates used in the endometriosis study.

This report is required by law (7 USC 2143). Failure to report according to the regulations can result in an order to cease and desist and to be subject to penalties as provided for in Section 2150.

See reverse side for additional information.

Interagency Report Control No 0180-DOA-AN

UNITED STATES DEPARTMENT OF AGRICULTURE
ANIMAL AND PLANT HEALTH INSPECTION SERVICE

1. REGISTRATION NO.
21-R-0082

CUSTOMER NO.
445

FORM APPROVED
OMB NO. 0579-0036

ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

2. HEADQUARTERS RESEARCH FACILITY (Name and Address, as registered with USDA, include Zip Code)

COLUMBIA UNIVERSITY
630 W 168TH ST
NEW YORK NEW YORK, NY 10032
(212) 305-3837

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional sheets if necessary.)

FACILITY LOCATION(S)

See Attached Listing

REPORT OF ANIMALS USED BY OR UNDER CONTROL OF RESEARCH FACILITY (Attach additional sheets, if necessary or use APHIS FORM 7023A)

A. Animals Covered by The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report)	F. TOTAL NO. OF ANIMALS (Cols. C + D + E)
4. Dogs	10	47	436	0	483
5. Cats	0	0	2	0	2
6. Guinea Pigs	0	22	57	0	79
7. Hamsters	0	0	41	0	41
8. Rabbits	0	52	218	0	270
9. Non-Human Primates	6	2	99	0	101
10. Sheep	0	0	6	0	6
11. Pigs	0	0	110	0	110
12. Other Farm Animals					
Calves	0	0	21	0	21
13. Other Animals					
Ferrets	0	2	0	0	2
Gerbils	0	0	3	0	3

ASSURANCE STATEMENTS

- Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.
- Each principal investigator has considered alternatives to painful procedures.
- This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the Institutional Animal Care and Use Committee (IACUC). A summary of all the exceptions is attached to this annual report, in addition to identifying the IACUC-approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected.
- The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional official)

I certify that the above is true, correct, and complete (7 U.S.C. Section 2143)

SI

IAL OFFICIAL

NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)

DATE SIGNED

11/14/01

APHIS FORM 7023
(AUG 91)

(Replaces VS FORM 18-23 (Oct 88), which is obsolete)

PART 1 - HEADQUARTERS

APHIS Form 7023 Site List

The following sites have been reported by the facility.

Registration Number: 21-R-0082
Customer Number: 445
Facility: COLUMBIA UNIVERSITY
630 W 168TH ST
NEW YORK NEW YORK, NY 10032
(212) 305-3837

- ① BLACK BLDG. *Egle Institute Annex Bldg.*
630 WEST 168TH ST
NEW YORK NEW YORK, NY 10032
- ② ST LUKES - ROOSEVELT HOSPITAL - CLARK BLDG - ANTEN
114 ST & AMSTERDAM AVE
NEW YORK NEW YORK, NY 10032
- ③ ST. LUKES-ROOSEVELT HOSPITAL
AMSTERDAM AVE AND 59TH STREET
NEW YORK NEW YORK, NY 10032

SUMMARY OF EXCEPTIONS

October 1, 2000 to September 31, 2001

1. In a single protocol, 12 rhesus monkeys must be chaired for periods greater than 12 hours and less than 24 hours. This is an exception to the standard set by the Laboratory Animal Welfare Act. The Act states that nonhuman primates must be given the opportunity for 1 hour of continuous unrestrained activity if more than 12 hours of restraint are required. Monkeys used in the protocol are chair-restrained approximately three to ten times per year. All animals are conditioned to this restraint to prevent any distress associated with chairing. The IACUC approved this restraint based upon the scientific requirements for continuous data collection.

NOV 20 2002

This report is required by law (7 USC 2143). Failure to report according to the regulations can result in an order to cease and desist and to be subject to penalties as provided for in Section 2150.

See reverse side for additional information.

Interagency Report Control No. 0180-QQA-AN

UNITED STATES DEPARTMENT OF AGRICULTURE
ANIMAL AND PLANT HEALTH INSPECTION SERVICE

1. REGISTRATION NO.
21-R-0082

CUSTOMER NO.
445

FORM APPROVED
OMB NO. 0579-0036

ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

2. HEADQUARTERS RESEARCH FACILITY (Name and Address, as registered with USDA, include Zip Code)

COLUMBIA UNIVERSITY
630 W 166TH ST
NEW YORK NEW YORK, NY 10032
(212) 305-3837

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional sheets if necessary.)

FACILITY LOCATIONS(sites)

See Attached Listing

REPORT OF ANIMALS USED BY OR UNDER CONTROL OF RESEARCH FACILITY (Attach additional sheets if necessary or use APHIS FORM 7023A)

A. Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purpose.	C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report.)	F. TOTAL NO OF ANIMALS (Cols. C + D + E)
4. Dogs	6	65	434	0	499
5. Cats	0	0	0	0	0
6. Guinea Pigs	0	24	46	0	70
7. Hamsters	0	4	15	0	19
8. Rabbits	0	0	100	0	100
9. Non-Human Primates	4	0	128	0	128
10. Sheep	0	0	0	0	0
11. Pigs	0	0	196	0	196
12. Other Farm Animals					
calves	0	0	37	0	37
13. Other Animals					
gerbils	0	0	25	0	25

ASSURANCE STATEMENTS

- Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, testing, surgery, or experimentation were followed by the research facility.
- Each principal investigator has considered alternatives to painful procedures.
- This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the Institutional Animal Care and Use Committee (IACUC). A summary of all the exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected.
- The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL

(Signature of Investigative Officer or Legally Responsible Institutional Official)

I certify that the above is true, correct, and complete (7 U.S.C. Section 2143)

SIGNATURE

NAME OF HEADQUARTERS RESEARCH FACILITY (Print or Stamp)

DATE SIGNED

11/19/02

APHIS FORM 7023
(AUG 91)

(Replaces VS FORM 18-23 (Oct 88), which is obsolete) and Dean, Faculty of Medicine PART 1 - HEADQUARTERS

21 12 0082
NOV 20 2002

SUMMARY OF EXCEPTIONS

October 1, 2001 to September 31, 2002

1. In a single protocol, 12 rhesus monkeys must be chaired for periods greater than 12 hours and less than 24 hours. This is an exception to the standard set by the Laboratory Animal Act. The Act states that nonhuman primates must be given the opportunity for 1 hour of continuous unrestrained activity if more than 12 hours of restraint are required. Monkeys used in the protocol are chair-restrained approximately three to ten times per year. All animals are conditioned to this restraint to prevent any distress associated with chairing. The IACUC approved this restraint based upon the scientific requirements for continuous data collection.
2. In a single protocol, 9 rhesus monkeys were fasted (food) one time for 36 hours to investigate the potential effects of fasting on neuropeptides in the brains of primates.

APHIS Form 7023 Site List

The following sites have been reported by the facility.

Registration Number: 21-R-0082
Customer Number: 445
Facility: COLUMBIA UNIVERSITY
630 W 168TH ST
NEW YORK NEW YORK, NY 10032
(212) 305-3837

BLACK BLDG. & EYE INSTITUTE
630 WEST 168TH ST
NEW YORK NEW YORK, NY 10032

DEC 28 2004

This report is required by law (7 USC 2143). Failure to report according to the regulations can result in an order to cease and desist and to be subject to penalties as provided for in Section 2150.

See reverse side for
additional information

Interagency Report Control
No. 0180-DOA-JAN

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)		1. REGISTRATION NO. 55-R-0003	CUSTOMER NO. 983	FORM APPROVED OMB NO. 0579-0036
2. HEADQUARTERS RESEARCH FACILITY (Name and Address, as registered with USDA, include Zip Code)		DUKE UNIVERSITY BOX 3180 DUMC DURHAM, NC 27710 (919) 881-6792		
3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, or experimentation, or held for these purposes. Attached additional sheets if necessary.)				

FACILITY LOCATIONS (cities)

See Attached Listing

REPORT OF ANIMALS USED BY OR UNDER CONTROL OF RESEARCH FACILITY (Attach additional sheets if necessary or use APHIS FORM 7023A)					
A. Animals Covered by the Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, or research or surgery, but not yet used for research	C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving pain or distress to the animals accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used	E. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery or tests. (An explanation of procedures producing pain or stress in these animals and the reasons such steps were not used must be attached to this report.)	F. TOTAL NO. OF ANIMALS (Cols. C + D + E)
4. Dogs	2	8	83		89
5. Cats	5	1	1		6
6. Guinea Pigs	31	280			311
7. Hamsters					
8. Rabbits	176	788			964
9. Non-Human Primates	59	3			62
10. Sheep	8	14			22
11. Pigs	10	881			889
12. Other Farm Animals					

Goats	3	2	5
13. Other Animals			
Ferrets	6	65	71
Monodelphis	88		88
Tree Shrew	141		141
Gerbil	1	25	26

ASSURANCE STATEMENTS

- 1) Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.
- 2) Each principal investigator has considered alternatives to painful procedures.
- 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the Institutional Animal Care and Use Committee (IACUC). A summary of all the exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected.
- 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

CERTIFICATE OF PRINCIPAL INVESTIGATOR I certify that the above is true, correct, and complete (7 U.S.C. Section 2143)		DATE SIGNED 12/1/04
NAME & TITLE OF PI OR INSTITUTIONAL OFFICIAL (Type or Print)		

(which is obsolete)

PART 1 - HEADQUARTERS

UNITED STATES DEPARTMENT OF AGRICULTURE
ANIMAL AND PLANT HEALTH INSPECTION SERVICE

1. CERTIFICATE NUMBER: 74-R-0106
CUSTOMER NUMBER: 9464

FORM APPROVED
OMB NO. 0579-0036

ANNUAL REPORT OF RESEARCH FACILITY
(TYPE OR PRINT)

American Animal Health Inc.
2619 Skyway Drive
Grand Prairie, TX 75052

Telephone: (972)-641-5420

AT 12-20-02

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, or experimentation, or held for these purposes. Attach additional sheets if necessary)

FACILITY LOCATIONS (State) - See Attached Listing (Attachment #1)

REPORT OF ANIMALS USED BY OR UNDER CONTROL OF RESEARCH FACILITY (Attach additional sheets if necessary or use APHIS Form 7023A)

A. Animals Covered By The Animal Welfare Regulations	B. Number of animal being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reason such drugs were not used must be attached to this report)	F. TOTAL NUMBER OF ANIMALS (COLUMNS C + D + E)
4. Dogs					
5. Cats					
6. Guinea Pigs					
7. Hamsters					
8. Rabbits					
9. Non-human Primates					
10. Sheep					
11. Pigs					
12. Other Farm Animals					
Cattle		30		*70 (Attachment #2)	100
13. Other Animals					
Goats		600			600

ASSURANCE STATEMENTS

- Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, testing, surgery, or experimentation were followed by this research facility.
- Each principal investigator has considered alternatives to painful procedures.
- This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the Institutional Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected.
- The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL
(Chief Executive Officer or Legally Responsible Institutional Official)

SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL

NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)

DATE SIGNED

10/03/02

American Animal Health, Inc.
2619 Skyway Drive
Grand Prairie, TX 75052
U.S. Vet License 315

October 3, 2002

FACILITY LOCATIONS

- | | | |
|-----|--|--------------------------|
| 1.) | Burrer Testing Facility
2.0 Miles N. on the Hayden Ranch Rd. from
the Junction of Tivydale Rd.
Fredericksburg, TX 78624 | Goats |
| 2.) | Chester Spinrath Testing Facility
Allerkamp Rd.
Comfort, TX 78013 | Goats |
| 3.) | Farm Place Testing Facility
8.5 Miles S. & 0.4 Miles West/Junction
of Wilson Creek Rd. & FM 1341
Comfort, TX 78013 | Goats |
| 4.) | Fredericksburg Texas Testing Facility
Texas State Hwy 16
Fredericksburg, TX 78624 | Cattle & Goats |
| 5.) | Hillingdon Ranch Testing Facility
346 Giles Ranch Rd.
Comfort, TX 78013 | Goats |
| 6.) | Johnson City Texas Testing Facility
Rt. 1, Box 770
Johnson City, TX 78636 | Goats |
| 7.) | Laboratory Animal Testing and Storage Facility
Building #3
2625 Skyway Drive
Suite 102
Grand Prairie, TX 75052 | Guinea Pigs & White Mice |

7480106

American Animal Health, Inc.
2619 Skyway Drive
Grand Prairie, TX 75052
U.S.Vet License 315

October 3, 2002

- | | | |
|------|---|-------|
| 8.) | Squaw Creek Testing Facility
2.8 Miles South of Junction of Doss Rd.
(FM648) and Squaw Creek Rd.
Doss, TX 78618 | Goats |
| 9.) | Stieler Place Testing Facility
15 Miles S. on Hwy 87 from junction of
Highway St. and Hwy 87
Comfort, TX 78018 | Goats |
| 10.) | White Oak Testing Facility
5 Miles S. of the Junction of Tivydale Rd.
(FM 2093) & White Oak Rd.
Fredericksburg, TX 78624 | Goats |

19K0100
American Animal Health, Inc.
2619 Skyway Drive
Grand Prairie, TX 75052
U.S.Vet License 315

October 3, 2002

Attachment #2

* Host animal immunogenicity studies for Pasteurella Haemolytica Bacterin-Toxoid and Mycoplasma Bovis Bacterin have to be done by challenge protection evaluation as required by the U.S.D.A. Both vaccinated and non-vaccinated cattle have to go through the challenge stress for 4 days for P. haemolytica and 14 days for Mycoplasma bovis before being euthanized by captive bolt stunning and necropsied to evaluate the lung lesions.

OCT 8 2002